BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Best Available Control Technology (BACT) Guideline

Source Category

Source:	*Gas Turbine*	Revision:	*3*
		Document #:	*89.2.1*
Class:	*≥23 MMBtu/hr Heat Input*	Date:	*08/24/98*

Determination

POLLUTANT	BACT 1. Technologically Feasible/ Cost Effective 2. Achieved in Practice	TYPICAL TECHNOLOGY
POC	1. *>50% reduction by weight*[a,b,T] 2. *50% reduction by weight*[a,b,T]	1. *Catalytic Oxidation*[a,b,T] 2. *Catalytic Oxidation*[a,b,T]
NOx	1. *<5 ppmv, Dry @ 15% O_2*[d] 2. *5 ppmv, Dry @ 15% O_2*[a,b,c,d]	1. *SCR + Combustion Modifications*[a] 2. *SCR + Combustion Modifications*[a,b,c,d]
SO_2	1. *Natural Gas Fuel*[a,b] 2. *Natural Gas Fuel or Treated Refinery Gas Fuel w/ <100 ppmv Total Reduced Sulfides*[a,b,c]	1. *Fuel Selection*[a,b] 2. *Fuel Selection*[a,b,c]
CO	1. *<6 ppmv, Dry @ 15% O_2 or 90% reduction by weight*[a,c] 2. *10 ppmv, Dry @ 15% O_2*[b]	1. *Oxidation Catalyst*[a,c] 2. *Oxidation Catalyst*[b]
PM_{10}	1. *Natural Gas Fuel*[a,b] 2. *Natural Gas Fuel or Treated Refinery Gas Fuel*[a,b,c]	1. *Fuel Selection*[a,b] 2. *Fuel Selection*[a,b,c]
NPOC	1. *n/a* 2. *n/a*	1. *n/a* 2. *n/a*

References

a. BAAQMD A #8658
b. BAAQMD A #10962
c. BAAQMD A #8407 (Refinery gas fuel <50 ppmv H_2S and <100 ppmv total reduced sulfides)
d. CARB/CAPCOA Clearinghouse
T. TBACT: ≥50% reduction of toxic POC compounds by catalytic oxidation